

UNT Information Science PhD Program

Geospatial Information Science Concentration Course Requirements

Students enrolled in the Geospatial Information Science Concentration will take courses from four blocks:

1. Program Core (12 hrs, required)
 - INFO 6000 Seminar in Information Science (3 hrs)
 - INFO 6700 Seminar in Communication and Use of Information (3 hrs)
 - INFO 6945 Doctoral Seminar in Information Issues (3 hrs)
 - INFO 6660 Readings in Information Science (3 hrs)
2. Research Courses (24 hrs, required)
 - INFO 6940 Seminar in Research and Research Methodology (3 hrs)
 - GEOG 5185 Statistical Research Methods in Geography (3 hrs)
 - GEOG 5550 Advanced GIS (3 hrs) (or GEOG 5900 if students have taken GEOG 5550)
 - GEOG 5900 Special Problems (3 hrs)
 - INFO 6950 Doctoral Dissertation (12 hrs)
3. Concentration Core (15 hrs. Courses are selected with approval of major advisor.)
 - GEOG 5230 Location Intelligence: Business GIS Concepts and Applications (3 hrs)
 - GEOG 5410 Location-Allocation Modeling (3 hrs)
 - GEOG 5510 GIS for Applied Sciences (3 hrs)
 - GEOG 5560 Introduction to GIS Programming (3 hrs)
 - GEOG 5570 Special Topics in GIS (3 hrs)
 - GEOG 5590 Advanced GIS Programming (3 hrs)
 - GEOG 5430 Remote Sensing (3 hrs)
 - GEOG 5580 Health GIS (3 hrs)
4. Electives (9 hrs. Courses are selected with approval of major advisor. Other relevant courses may be used upon approval.)
 - CSCE 5170 Graph Theory
 - CSCE 5213 Modeling and Simulation
 - CSCE 5216 Pattern Recognition
 - CSCE 5220 Computer Graphics
 - CSCE 5225 Digital Image Processing
 - CSCE 5300 Introduction to Big Data and Data Science
 - CSCE 5350 Fundamentals of Database Systems
 - CSCE 5380 Data Mining
 - CSCE 5820 Computational Epidemiology
 - CSCE 6260 Advanced Topics in Pattern Recognition & Image Processing
 - CSCE 6350 Advanced Topics in Database Systems
 - EENG 5640 Computer Vision and Image Analysis
 - GEOG 5140 Medical Geography
 - GEOG 5400 Environmental Modeling
 - GEOG 5210 Seminar in Urban Geography
 - GEOG 5350 Geomorphology
 - PADM 5610 Disaster Preparedness and Management
 - PADM 5615 Environmental Planning and Hazards
 - BIOL 5040 Contemporary Topics in Environmental Science and Ecology
 - BIOL 5050 Foundations of Ecological Theory
 - CJUS 5120 Cybercrime and Digital Forensics
 - SOCI 5210 Introduction to Social Statistics
 - SOCI 5350 Seminar on Urbanization